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PTO/SB/21 (08/00)

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	097862,417
Filing Date	23 May 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	3712
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

Total Number of Pages in This Submission

ENCLOSURES (check all that apply)

- ☒ Fee Transmittal Form
- ☒ Fee Attached = check # 313335 for \$180.00
- ☐ Amendment/Reply
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Supplemental Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney. Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD. Number of CD(s)

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☒ Other Enclosure(s) (please identify below).

Return Postcard. Substitute Form PTO-1449; Copies of Cited References

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MAY 16 2003

Remarks:

TECHNOLOGY CENTER R3700

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jacqueline Haley Reg. No.: 41,457
Signature	<i>Jacqueline Haley</i>
Date	May 1, 2003

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this date: 05-01-03.

Typed or printed name	Robert L. Florence	Date	May 1, 2003
Signature	<i>Robert L. Florence</i>		

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT **(\$)** **180.00**

Complete if Known

Application Number 09/862,417
Filing Date 23 May 2001
First Named Inventor WANG, Xiao Bing
Examiner Name CHAKRABARTI, Arun
Group Art Unit 1634
Attorney Docket No. TRIM4

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money ☐ Other ☐ None
Order

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Deposit
Account
Number

20-1507

Deposit
Account
Name

TROUTMAN SANDERS LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	740	2001	370	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	510	2003	255	Plant filing fee	
1004	740	2004	370	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1) (\$)					

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra Claims Fee from below

Total Claims - 20** = X =
Independent Claims - 3** = X =

Multiple Dependent

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claim, if not paid	
1204	84	2204	42	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)					

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for expedite reexamination	
1804	920*	1804	920*	Requesting publication of SIR after Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	2251	55	55	Extension for reply within first month	
1252	400	2252	400	Extension for reply within second month	
1253	255	460	255	Extension for reply within third month	
1254	1440	2254	1440	Extension for reply within fourth month	
1255	980	2255	980	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1280	2453	640	Petition to revive - unintentional	
1501	1,280	2501	640	Utility issue fee (or reissue)	
1502	460	2502	230	Design issue fee	
1503	620	2503	310	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(g)	
1806	180	1806	180	Submission of Information Disclosure Sheet	\$ 180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	740	2809	370	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	740	2810	370	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	740	2801	370	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) **(\$)** **180.00**

SUBMITTED BY

Name (Print/Type) Jacqueline Haley
Signature *Jacqueline Haley*

Registration No.
(Attorney/Agent)

41,457

Complete (if applicable)

Telephone (404) 885-3561
Date May 1, 2003

WARNING: Information of this may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 155 Department of Commerce, Washington, DC 20230. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

In re Patent Application of:
WANG, Xiao Bing

Serial No.: **09/862,417**

Filed: **23 May 2001**

For: **ISOMETRIC PRIMER EXTENSION
METHOD AND KIT FOR
DETECTION AND QUANTIFICATION
OF SPECIFIC NUCLEIC ACID**

Group Art Unit: **3712**

Examiner: **CHAKRABARTI, Arun**

Atty. Docket No. **TRIM4**

Certificate of Mailing

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Signature: Robert L. Elgren

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STATEMENT (IDS) AND COPIES OF IDS CITATIONS UNDER 37 C.F.R. 1.97(c)**

May 1, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the continuing duty under 37 C.F.R. § 1.56 to disclose to the United States Patent and Trademark Office any information that may be material to the patentability of the above-identified invention, Applicant hereby discloses the references listed on the attached Form PTO-1449 for the above-identified patent application along with copies of each listed

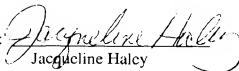
reference. An English translation of reference D (RU 97117182) is also included pursuant to M.P.E.P. 609 III A (3).

The submission of these references shall not serve as an indication that a search has been conducted on the claimed subject matter, nor shall the submission be deemed an admission that these references are, or are considered to be, material to the patentability of the above-identified patent application.

Applicant has enclosed check # 313335 in the amount of \$180.00 to cover the fee under 37 C.F.R. § 1.97 (c) and 37 C.F.R. § 1.17 (p). No other fee is deemed due in connection with filing this Supplemental Information Disclosure Statement, however, if a fee is deemed to be due the Commissioner is hereby authorized to charge such fee to Deposit Account No. 20-1507.

Respectfully submitted,

TROUTMAN SANDERS LLP

By: 
Jacqueline Halcy
Reg. No. 41,457

Troutman Sanders LLP
Bank of America Plaza, Suite 5200
600 Peachtree Street, N.E.
Atlanta, Georgia 30308-2216
Tel. No.: (404) 885-3561
Fax No.: (404) 962-6848

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	Of	3
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Complete If Known

Application Number	09/862,417
Filing Date	23 MAY 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	1634
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date Considered

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the twolletter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1-449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 Of 3

Complete If Known

Application Number	09/862,417
Filing Date	23 MAY 2001
First Named Inventor	WANG, Xiao Bing
Group Art Unit	I634
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published	T ¹
E	Fahy et al., Multiplex Fluorescence-based Primer Extension Method for Quantitative Mutation Analysis of Mitochondrial DNA and its Diagnostic Application for Alzheimer's Disease, NUCLEIC ACID RESEARCH 25, 3102-3109 (1997)		
F	Kinzler et al., Identification of FAP Locus Genes from Chromosome 5q21. SCIENCE 253, 661-665 (1991)		
G	Joslyen et al., Identification of Deletion Mutations and Three New Genes at the Familial Polyposis Locus. CELL 66, 601-613 (1991)		
H	Nishisho et al., Mutations of Chromosome 5q21 Genes in FAP and Colorectal Cancer Patients. SCIENCE 253, 665-669 (1991)		
I	Konopka et al., An Alteration of the Human c-abl Protein in K562 Leukemia Cells Masks Associated Tyrosine Kinase Activity. CELL 37, 1035 (1984)		
J	Botstein et al., Construction of a Genetic Linkage Map in Man Using Restriction Fragment Length Polymorphisms. AM. J. HUM. GENET 32, 314-331 (1980)		
K	White et al., Chromosome Mapping with DNA Markers. SCIENTIFIC AMERICAN 258, 40-48 (1988)		
L	Howell et al., A Heteroplasmic LHON Family: Tissue Distribution and Transmission of the 11778 Mutation. AM. J. HUM. GENET 55, 203-206 (1994)		
M	Studencki et al., Discrimination among the Human β^A , β^S , and β^C Globin Genes Using Allele-Specific Oligonucleotide Hybridization Probes. AM. J. HUM. GENET 37, 42-51 (1985)		
N	Saiki et al., Analysis of Enzymatically Amplified β -globin and HLA-DQA DNA with Allele-Specific Oligonucleotide Probes. NATURE 324, 163-166 (1986)		
O	Landegren et al., A Ligase-Mediated Gene Detection Technique. SCIENCE 241, 1077-1080 (1988)		

Examiner
SignatureDate
Considered¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	WANG, Xiao Bing
Group Art Unit	1634
Examiner Name	CHAKRABARTI, Arun
Attorney Docket Number	TRIM4

(use as many sheets as necessary)

Sheet	3	Of	3
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[illegible]

man DNA by Gel Electrophoresis
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Date
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached

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